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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/072,540	02/08/2002	James Arthur Hoffmann	X-11368A	4243
25885	7590 09/26/2006		EXAMINER	
ELI LILLY & COMPANY PATENT DIVISION			ZHANG, NANCY L	
P.O. BOX 62			ART UNIT	PAPER NUMBER
INDIANAPOLIS, IN 46206-6288			1614	
			DATE MAIL ED: 00/26/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No. Applicant(s)						
Office Action Summan	10/072,540	HOFFMANN, JAMES ARTHUR					
Office Action Summary	Examiner	Art Unit					
	Nancy L. Zhang	1614					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 27 De	ecember 2005						
· · · · · · · · · · · · · · · · · · ·	action is non-final.						
3) Since this application is in condition for allowar		secution as to the merits is					
closed in accordance with the practice under E	•						
Disposition of Claims							
· <u> </u>							
	Claim(s) <u>35-54</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.						
	vn from consideration.						
5) Claim(s) is/are allowed.							
· · · · · · · · · · · · · · · · · · ·	6)⊠ Claim(s) <u>35-41 and 44-54</u> is/are rejected.						
7) Claim(s) <u>42 and 43</u> is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers		t .					
9) The specification is objected to by the Examine	r.						
10) The drawing(s) filed on is/are: a) □ acce	epted or b)□ objected to by the £	Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:		-(d) or (f).					
	— ,,,						
2. Certified copies of the priority documents							
3. Copies of the certified copies of the prior	•	ed in this National Stage					
application from the International Bureau	` ''						
* See the attached detailed Office action for a list of	of the certified copies not receive	d.					
Attachment(s)							
Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
2)	Paper No(s)/Mail Da 5) Notice of Informal P						
Paper No(s)/Mail Date <u>1 sheet</u> .	6) Other:	atom r typhocaott					

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DETAILED ACTION

Applicant's amendment filed December 27, 2004 has been received. Applicant's remarks that the rejection in the last office action is an improper rejection have been considered and are found persuasive. The previous Double-Patenting rejection is therefore withdrawn.

Claims 35-54 are presented for examination.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 35-38 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 4 of U.S. Patent No. 6,358,924 (Hoffmann; issue date: Mar. 19, 2002). Although the conflicting claims are not identical,

they are not patentably distinct from each other. The only difference between them is: the surfactant in claims 35-38 of the instant application is a Tween polymeric surfactant whereas the surfactant in claims 1 and 4 of Hoffmann's issued patent is a list of anionic surfactant. Although a Tween polymeric surfactant is not in the list of anionic surfactant in the claims of the issued patent, a Tween polymeric surfactant can be an anionic surfactant (DeFazio, US Patent 4,447,545, issued date: May 08, 1984, column 5, lines 38-39). It would have been obvious to one of ordinary skill in the art at the time the invention was made to use an anionic Tween polymeric surfactant as the anionic surfactant in the formulation of Hoffmann's issued patent.

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Claim 36 recites that the GLP-1 compound is protected from the activity of dipeptidyl-peptidase IV. This is merely a recitation of mechanism of the stable pharmaceutical formulation.

"[T]he discovery of a previously unappreciated property of a prior art composition, or of a scientific explanation for the prior art's functioning, does not render the old composition patentably new to the discoverer." Atlas Powder Co. v. Ireco Inc., 190 F.3d 1342,1347, 51 USPQ2d 1943, 1947 (Fed. Cir. 1999). Thus the claiming of a new use, new function or unknown property which is inherently present in the prior art does not necessarily make the claim patentable.

It is noted that In re Best (195 USPQ 430) and In re Fitzgerald (205 USPQ 594) discuss the support of rejections wherein the prior art discloses subject matter which there is reason to believe inherently includes functions that are newly cited or is identical to a product instantly claimed. In such a situation the burden is shifted to the

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applicants to "prove that subject matter shown to be in the prior art does not possess characteristic relied on" (205 USPQ 594, second column, first full paragraph).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 35, 39-41 and 44-54 are rejected under 35 U.S.C. 102(e) as being anticipated by Knudsen (US Patent 6,458,924; issue date: Oct. 1, 2002; filing date: Sep. 16, 1999).

Claims 35, 39-41 and 44-52 recite a pharmaceutical formulation comprising a GLP-1 compound (selected from a group consisting of GLP-1, GLP-1 analogs and GLP-1 derivatives), a Tween polymeric surfactant, a preservative and a buffer (pH about 6.5

to about 9.0). Claims 48-50 recite that the formulation further comprises an isotonicity agent.

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Knudsen teaches a pharmaceutical composition comprising a GLP-1 derivative and a surfactant (see abstract). Knudsen also discloses that the pharmaceutical compositions preferably comprise a surfactant such as polymeric surfactants (Tween-40, Tween-80, Brij-35) (column 154, lines 36-37). The pH value for the buffers of Knudsen's composition can be 7.4 (column 201, table of examples). Knudsen's composition further comprises an isotonic agent, a preservative and a buffer (column 250, line 35).

Claim 39-41 and 44-46 of the instant application limit that the GLP-1 compound is acylated on the epsilon-amino acid group of lysine. Knudsen discloses that the GLP-1 derivative in the composition has its epsilon-amino acid group of Lys substituted with a lipophilic substituent which is an acyl group (column 249, lines 44-49).

Claims 45-46 of the instant application limit that the GLP-1 has an arginine at position 34. The GLP-1 derivative in Knudsen's composition has an arginine at position 34 (column 249, line 40).

Claim 49 of the instant application limits that the isotonicity agent is glycerin.

Claim 50 of the instant application limits that the isotonicity agent is sodium chloride.

Knudsen discloses that the isotonic agent in the composition is sodium chloride or glycerol (column 250, line 37).

Claim 51 of the instant application limits that the preservative is phenol. Claim 52 of the instant application limits that the preservative is m-cresol. Knudson discloses that the preservative is phenol or m-cresol (column 250, line 39).

Therefore, the pharmaceutical formulation of the instant application as claimed in claims 35, 39-41, 44-52 is clearly anticipated by Knudsen.

Claims 53-54 recite a method comprising administering a pharmacologically effective amount of a formulation of claim 35 for treating a person having a condition of elevated glucose levels. Claim 54 limits that the condition is Type II diabetes.

Knudsen teaches that the pharmaceutical composition of the invention may be administered parenterally to patients in need of a treatment (column 157, lines 13-15). Such treatment includes treating insulin dependent or non-insulin dependent diabetes mellitus (column 156, lines 62-64) which is Type II diabetes.

Therefore, the method of administering a formulation as claimed in claims 53-54 of the instant application is clearly anticipated by Knudsen.

In summary, Knudsen anticipates claims 35, 39-41 and 44-54.

Conclusion

Claims 42 and 43 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nancy L. Zhang whose telephone number is (571)-272-8270. The examiner can normally be reached on Mon.- Fri. 8:30am - 5:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ardin Marschel can be reached on (571)-272-0718. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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ARDIN H. MARSCHEL SUPERVISORY PATENT EXAMINER

Asta U Marsh 19/16/06